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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,711	05/27/2005	Naotaka Kubota	SHIGA7.020APC	2878
20995	7590	07/18/2007	EXAMINER	
KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614			WALKE, AMANDA C	
		ART UNIT		PAPER NUMBER
		1752		
		NOTIFICATION DATE	DELIVERY MODE	
		07/18/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com
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Office Action Summary	Application No.	Applicant(s)	
	10/536,711	KUBOTA ET AL.	
	Examiner	Art Unit	
	Amanda C. Walke	1752	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 27 May 2005.
2a) This action is **FINAL**. 2b) This action is non-final.
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-15 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-15 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application
6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country, or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 3, 6-10, 12, 13, and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Sato et al (JP 2000-338674 in view of its English language translation).

Sato et al disclose a positive resist composition comprising a resin having the instantly claimed repeat units (1-10 on pages 35 and 36; in order a1, a2, and a3; in amounts meeting the instant claim limitations [0130]-[0132]), a solvent, an onium salt having a fluorinated alkyl anion, and preferably comprises a nitrogen containing base compound in an amount falling within the scope of the instant claim 7.

3. Claims 1-3, 6, 8-10, and 12-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Kodama et al (6,749,987).

Kodama et al discloses a positive resist composition comprising a hydroxyl or acetoxy styrene resin (claim 2), and a resin comprising monomeric units meeting the limitations of a1-a4 in amounts meeting the instant claim limitations (see polymer 19 in table 5), a nitrogen

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containing basic compound (see examples in column 125) and an onium salt compound having a fluorinated alkyl anion.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 4, 5, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kodama et al.

Kodama et al has been discussed above and further teaches that additional cyclic group containing monomers may be employed (see b44 or b65 in table 5) and when a tetrapolymer is employed, the amounts appear to fall within the instant claim limitations. It would have been obvious to one of ordinary skill in the art to prepare the material of the reference choosing to employ an additional cyclic monomer meeting which would meet the limitations of the instant a4.

6. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kodama et al in view of Cotte et al (6,398, 875).

Kodama has been discussed above, and teaches that the composition is employed in a resist patterning process that includes coating the film onto a wafer, drying/baking it, exposing, baking, developing, rinsing, then drying the resist (columns 126 and 127). The reference is silent with respect to the drying method.

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Cotte et al disclose a method of drying a layer of resist after water rinsing employing a supercritical fluid. This has the advantage of decreasing pattern collapse.

Given the teachings of the references, it would have been obvious to one of ordinary skill in the art to prepare the material of Kodama and form a pattern employing its method including the drying method of Cotte et al.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Fujimori et al (6,692,84) and Kodama (6,808,862) are cited for their teachings of similar materials.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda C. Walke whose telephone number is 571-272-1337. The examiner can normally be reached on M-R 5:30-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Amanda C. Walke
Primary Examiner
Art Unit 1752

ACW
June 29, 2007